

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/025480

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07D307/82 A61K31/343 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|----------|--|-----------------------|
| A        | EP 0 731 097 A (LILLY CO ELI)<br>11 September 1996 (1996-09-11)<br>claim 1   | 1-14                  |
| P, X     | WO 03/072561 A (HATOUM-MOKDAD HOLIA ;<br>BURKE MICHAEL (US); DUMAS JACQUES (US);<br>FAN JIAN) 4 September 2003 (2003-09-04)<br>cited in the application<br>claim 1 | 1-14                  |
| P, X     | BIOORG. MED. CHEM. LETT.,<br>vol. 14, 2004, pages 455-458, XP002312168<br>cited in the application<br>tables 1-3   | 1-14                  |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*YY\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

29 December 2004

Date of mailing of the international search report

10/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Wolf, C

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/US2004/025480**C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                    | Relevant to claim No. |
|------------|---|-----------------------|
| P,X        | BIOORG. MED. CHEM. LETT.,<br>vol. 14, 2004, pages 3411-3414,<br>XP002312169<br>cited in the application<br>tables 1,2 | 1-14                  |
| P,X        | BIOORG. MED. CHEM. LETT.,<br>vol. 14, 2004, pages 4383-4387,<br>XP002312170<br>tables 1,3                             | 1-14                  |

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2004/025480

### Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 13-14 in respect of industrial applicability because they relate to subject matter not required to be searched by this Authority, namely:  
**Although claims 13-14 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.**
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

|   |
|---|
| International Application No<br>PCT/US2004/025480 |
|---|

| Patent document cited in search report |   | Publication date |    | Patent family member(s) |            | Publication date |
|--|---|------------------|----|-------------------------|------------|------------------|
| EP 0731097                             | A | 11-09-1996       | US | 5523309 A               | 04-06-1996 |                  |
|  |   |                  | AT | 189678 T                | 15-02-2000 |                  |
|  |   |                  | AU | 692690 B2               | 11-06-1998 |                  |
|  |   |                  | AU | 5187396 A               | 02-10-1996 |                  |
|  |   |                  | BR | 9607774 A               | 07-07-1998 |                  |
|  |   |                  | CA | 2214450 A1              | 19-09-1996 |                  |
|  |   |                  | DE | 69606566 D1             | 16-03-2000 |                  |
|  |   |                  | DE | 69606566 T2             | 29-06-2000 |                  |
|  |   |                  | DK | 731097 T3               | 15-05-2000 |                  |
|  |   |                  | EP | 0731097 A1              | 11-09-1996 |                  |
|  |   |                  | ES | 2142021 T3              | 01-04-2000 |                  |
|  |   |                  | GR | 3033326 T3              | 29-09-2000 |                  |
|  |   |                  | IL | 117396 A                | 31-01-2000 |                  |
|  |   |                  | JP | 2000510814 T            | 22-08-2000 |                  |
|  |   |                  | PT | 731097 T                | 31-07-2000 |                  |
|  |   |                  | WO | 9628152 A1              | 19-09-1996 |                  |
|  |   |                  | ZA | 9601882 A               | 08-09-1997 |                  |
| WO 03072561                            | A | 04-09-2003       | BR | 0307894 A               | 07-12-2004 |                  |
|  |   |                  | CA | 2474510 A1              | 04-09-2003 |                  |
|  |   |                  | CA | 2474511 A1              | 04-09-2003 |                  |
|  |   |                  | EP | 1487813 A1              | 22-12-2004 |                  |
|  |   |                  | EP | 1478639 A1              | 24-11-2004 |                  |
|  |   |                  | WO | 03072566 A1             | 04-09-2003 |                  |
|  |   |                  | WO | 03072561 A1             | 04-09-2003 |                  |